CHARGE NUMBER: 8101
PROGRAM TITLE: Cigarette Testing Services
SECTION LEADER: Joyce F. Stargardt
PERIOD COVERED: November, 1985

I. ANALYTICAL SUPPORT

A. ALKALOID CONTENT OF RECONSTITUTED MATERIALS SEPARATED FROM THE CIGARETTE BLEND (C. C. Bright)

An evaluation of the alkaloid levels for the reconstituted materials (recon) from Philip Morris blends indicated that the alkaloid level of the recon analyzed prior to blending is lower than the alkaloid content in recon separated from the total blend. Loew's Theaters, Inc. (Lorillard) was issued a patent in August, 1980 (#4,215,706) entitled "Nicotine Transfer Process", which documents this phenomenon using a strong acid or the salt of strong acid. Three experimental blends were used to confirm the patent claims: one containing 24% by weight RCB as the only recon in the blend, a second blend with 24% by weight RL-150B, and a third with 24% by weight RL-TC in the blend. The RCB sample had 6.5% diammonium phosphate applied, the RL-150B sample had 2.25% diammonium phosphate applied, and the RL-TC sample did not contain any diammonium phosphate. The RCB separated from the blend showed the highest alkaloid transfer from the lamina since it was treated with the highest concentration of diammonium phosphate. The RL-TC sample showed no increase in alkaloids, since it was not treated with diammonium phosphate.

B. TO INVESTIGATE THE UTILITY OF AN INFRAALYZER FOR THE DETERMINATION OF MENTHOL IN AFTERCUT SOLUTIONS (B. Kanipe)

Fourteen aftercut solutions were analyzed for menthol concentrations using the InfraAlyzer and the reference gas chromatographic method. The data generated by the I/A 400 compared favorably with g.c. results with the exception of two almost colorless solutions and one black solution. These color extremes were not in the original calibration set and were atypical of aftercut solutions. The InfraAlyzer is unable to accurately measure these menthol concentrations because of light penetration differences from the calibration set. While current results are favorable, at least twenty more afterecut solutions will be analyzed.

C. GLYCYRRHIZIC ACID CONTENT OF COMMERCIAL MENTHOL CIGARETTES (G. Carter)

Five commercial menthol brands were analyzed for glycyrrhizic acid, a flavor component found in licorice, in the tobacco filler. There was no glycyrrhizic acid detected in Kool 85 (B&W). Salem 85 and Vantage 85 (RJR) contained the highest quantities at 0.6 mg of glycyrrhizic acid per gram of tobacco filler. Newport 85 (Lorillard) had 0.3 mg/g and Benson & Hedges 100 (PM) contained 0.4 mg/g. These menthol brands were analyzed in order to establish baseline levels of licorice used in competitive menthol cigarettes.

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D. MICROSCOPIC BLEND SEPARATION (N. Ryan & B. Kanipe)

Microscopic Blend Separation was performed on Winston Lights 80 (Box). During the routine examination it was noted that this product contained a light colored reconstituted sheet as well as the typical Reynolds dark sheet. This light colored sheet is only in the Winston Lights 80 (Box) cigarettes. This product was analyzed for humectants and contained 1.1% triethylene glycol (TEG). This is atypical of Reynolds brands.

E. VARIABLE PUFF SMOKING MACHINE (B. Mait & B. Joyner)

The variable puff smoking machine is being used routinely to generate TPM and puff count data. The shut off valve for the gas cylinder connection to the variable puff smoking machine has been installed. This machine is now ready to be calibrated for CO delivery.

II. MARKET ACTIVITY (B. Mait & K. Sanderson)

Philip Morris will distribute Players Lights Menthol 85 and 100 cigarettes nationally in December, 1985. These cigarettes are packaged 25 cigarettes per pack and eight packs per carton for a total of 200 cigarettes. These cigarettes will sell for $1.50 less than regular price cigarettes.

Lorillard is nationally distributing True Gold 85 (Soft Pack) and True Gold 100 (Soft Pack and Box). The 85 mm cigarette delivers 11 mg tar and has cork tipping paper. The 100 mm versions deliver 12 mg tar and have white tipping paper.

III. PRESENTATION AND REPORTS

A. Memo to Mr. J. E., Wickham from W. A., Early, "The future Computer Needs of the Cigarette Testing Services Division", November 4, 1985.

B. D. R. Watson, "Borgwaldt Loose Ends Method", Method Number C-24, Analytical Division Methods Manual, November 20, 1985.

C. C. C. Bright to Mr. J., E. Wickham, "Alkaloid Content of Reconstituted Materials Separated from the Cigarette Blend", November 25, 1985, and presentation of November 26, 1985.

D. Memo from Becky Kanipe to Mr. J. E. Wickham, "Humectant and Plasticizer Levels of Commercial Cigarettes - 1985", November 21, 1985.

E. Memo from Becky Kanipe to Mr. J. E., Wickham, "Humectants in Winston Lights 80 (Box)", November 21, 1985.

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